9-3 Factoring Quadratics

Objectives:

- I can factor out a greatest common factor
- -I can factor a quadratic expression from standard form.

Factor out the greatest common factor

$$3x^3 - 27x^2 + 9x$$

$$2x^4 + 8x^3 - 6x^2 - 10x + 8$$

$$2(x^4+4x^3-3x^2-5x+4)$$

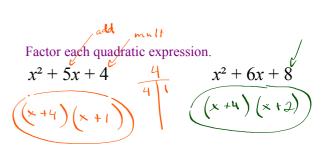
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Factoring with a leading coefficient of 1

$$x^2+bx+c$$

Find factors of c that add to b



Factor each quadratic expression.
$$x^{2} - 7x + 10$$

$$(x-5)(x-2)$$

$$(x-4)(x+2)$$

$$(x-3)(x+4)$$
 -12
 -12
 -12
 -12
 -13
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2)
$$5x^{4} + 10x^{2} - 5$$

$$5(x^{4} + 2x^{2} - 1)$$